

PRECAST CLADDING FOR TODAY & TOMORROW

Presented by Tom Kelley, P.E. President of Gage Brothers

Presentation Overview

- Office Cladding on a Steel Structure
- Ramp Cladding on Concrete Structure
- Total Precast Systems
- New Innovations: ARCIS

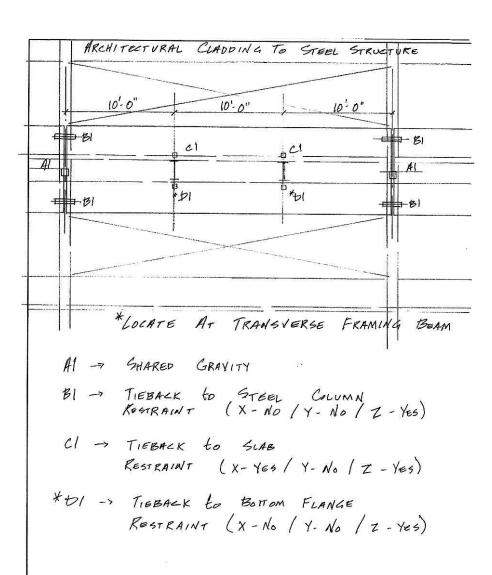


Sanford Fargo Medical Center

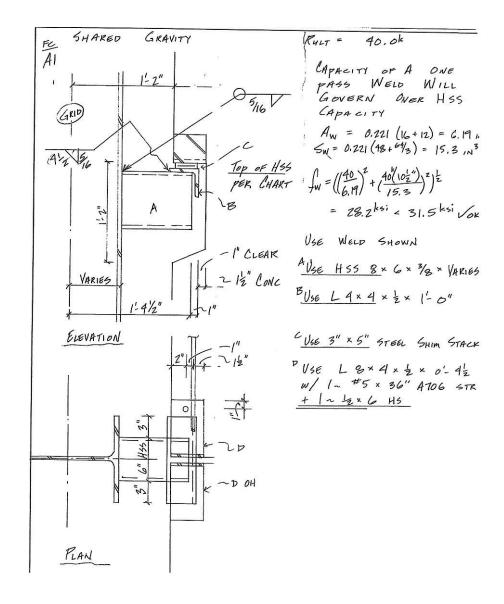




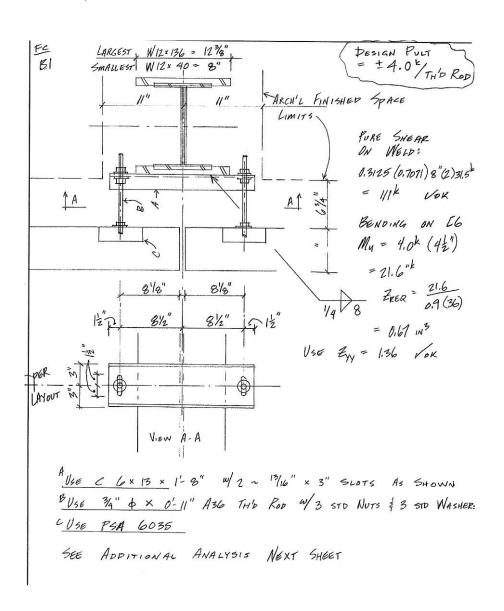
Connections



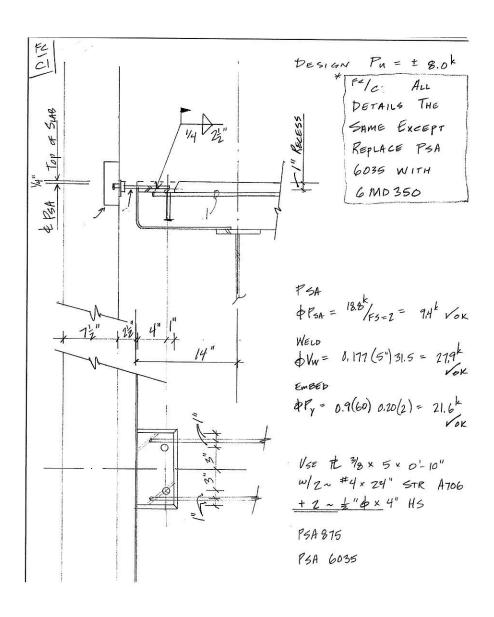
Gravity Connection



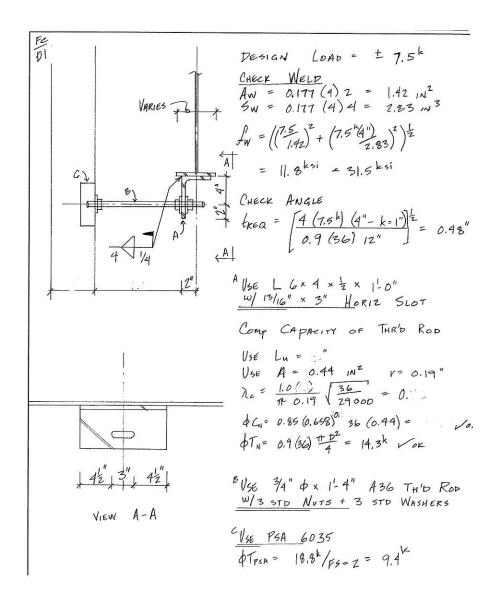
Column/Tieback Connection



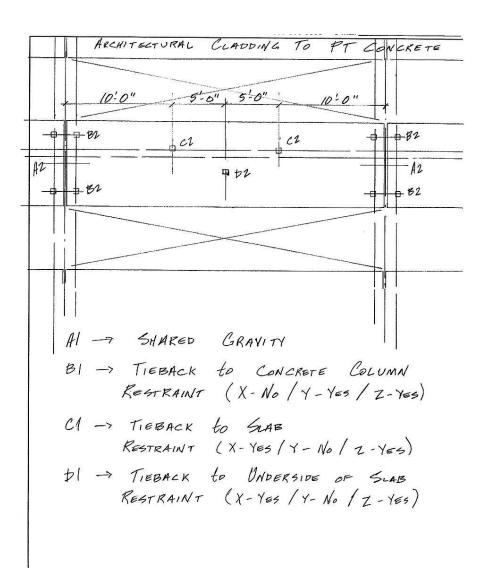
Slab/Tieback Connection



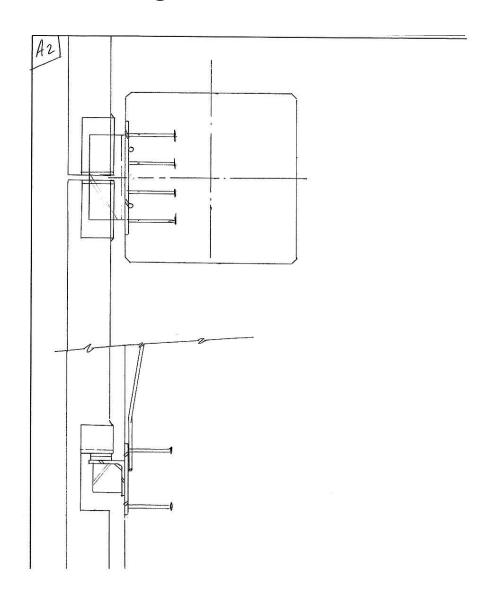
Midspan Tieback Connection



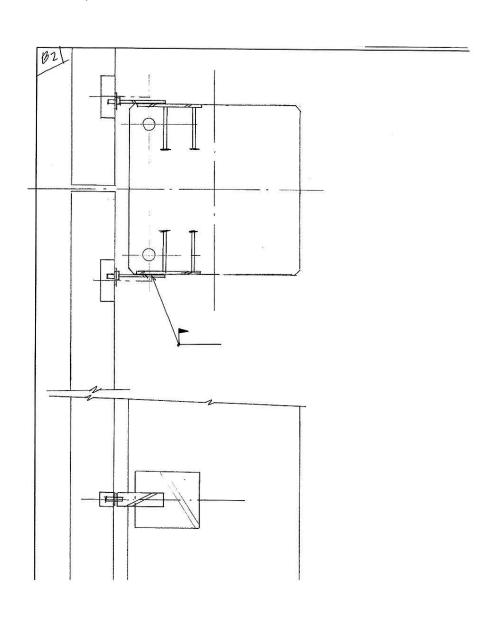
Connections



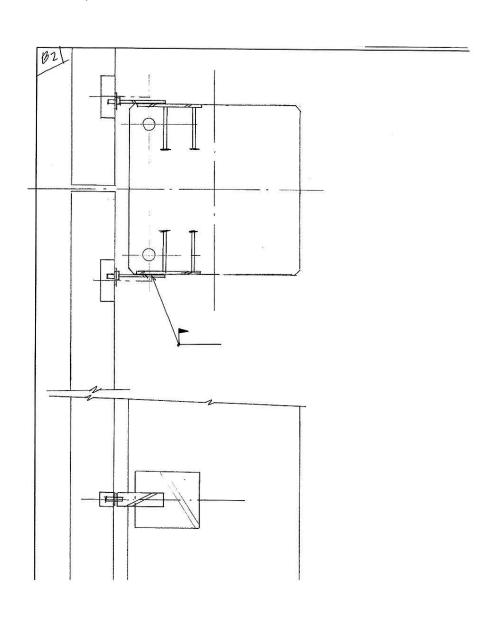
Gravity Connection



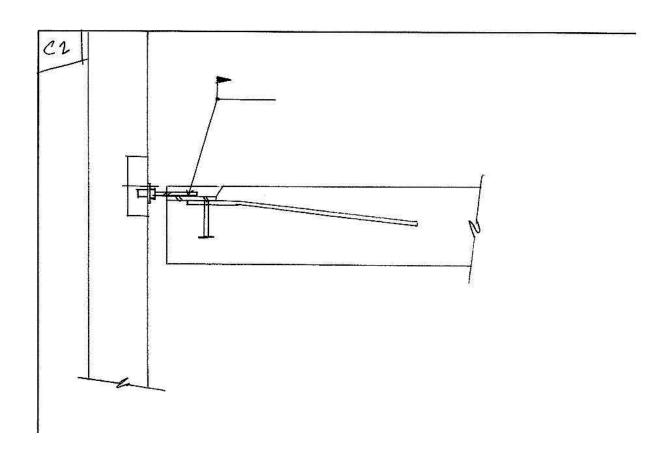
Column/Tieback Connection



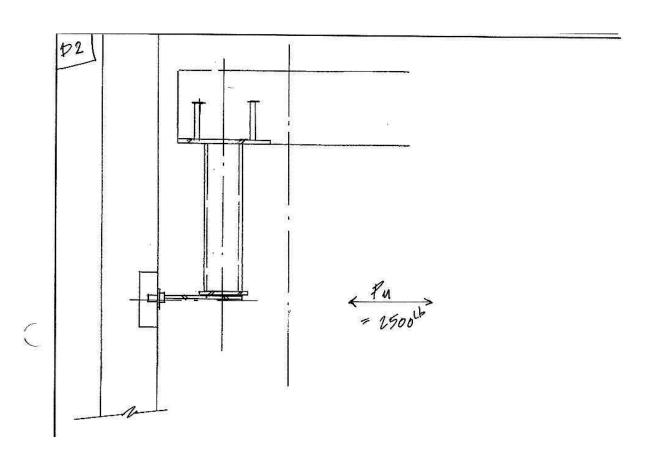
Column/Tieback Connection



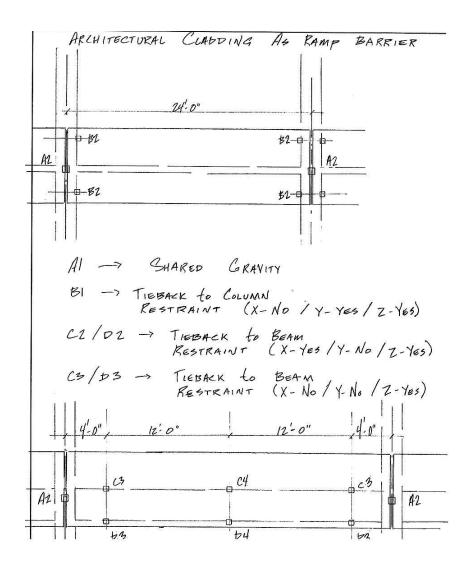
Tieback Connection



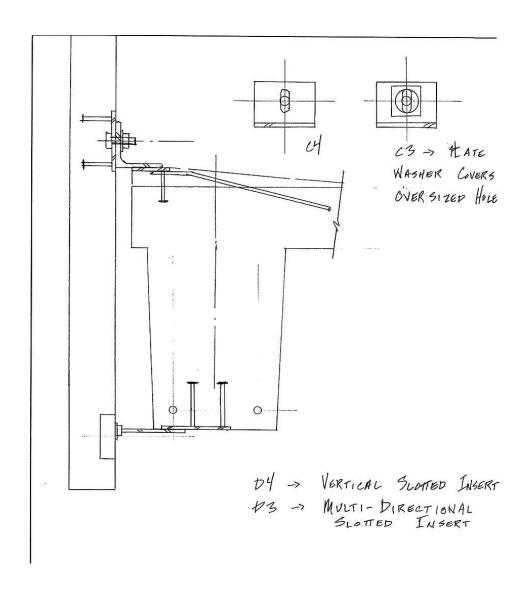
Tieback Connection



Connections



Tieback Connections



Target Northern Campus





National Marrow Donor Program





UnitedHealth Group









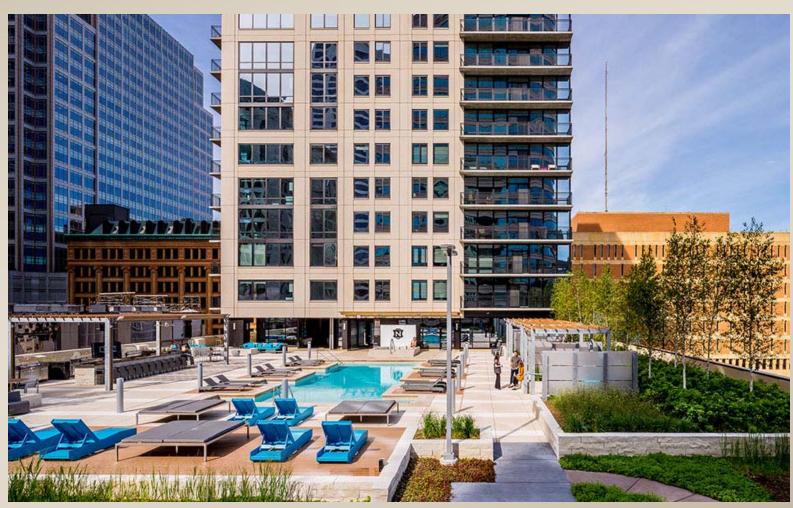


Medtronic Operational HQ





The Nic on 5th





Kenrick Avenue Park & Ride





17th Avenue Residence Hall





Wells Fargo Downtown East





Maurices Corporate HQ





Nordstrom Ridgedale







































Total Project Cost

Tech Tower No. 1 \$1

\$127.00/sq. ft.

Tech Tower No. 2

\$131.00/sq. ft.













The secret: stainless steel prestressing

ARCIS panels use non-corrosive high strength aerospace grade stainless steel prestressing – pretensioned cable strand —placed longitudinally and transversely in the panel face to impart strength, crack control and durability while allowing concrete cover to be minimized. The stainless steel tendons are placed slightly off the midplane of the panel to resist curling, warping and cracking. Panels can be produced in a variety of sizes from as small as 2' x 4' up to 8' x 13' and 8' x 15' in some markets.







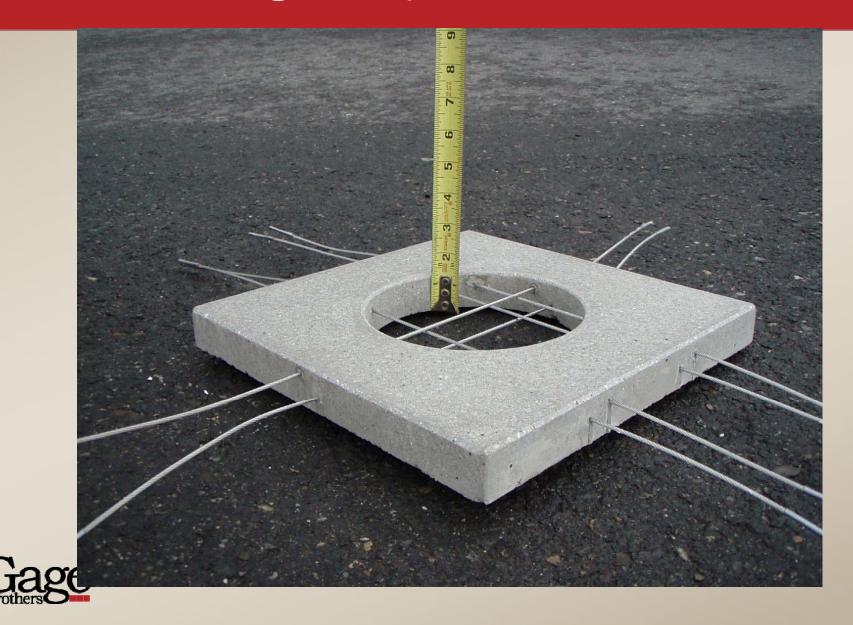
The secret: stainless steel prestressing

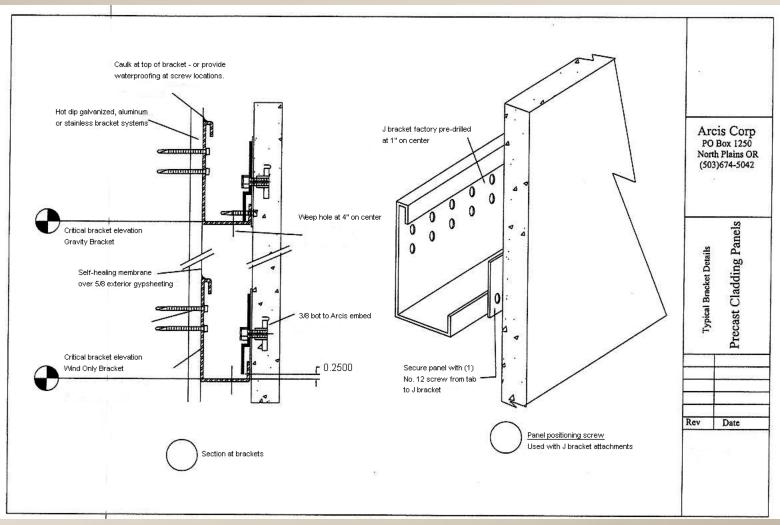
Panel connections are made using embedded stainless steel anchors that are attached directly to the prestressing strand during manufacturing set-up. The connection to the building structure is accomplished with screw fasteners. No welding is required, which dramatically speeds up and simplifies fieldwork. Panel size is governed by the attachment system, the panel thickness and the installer's method of handling the panels. The panels span vertically between J clips.



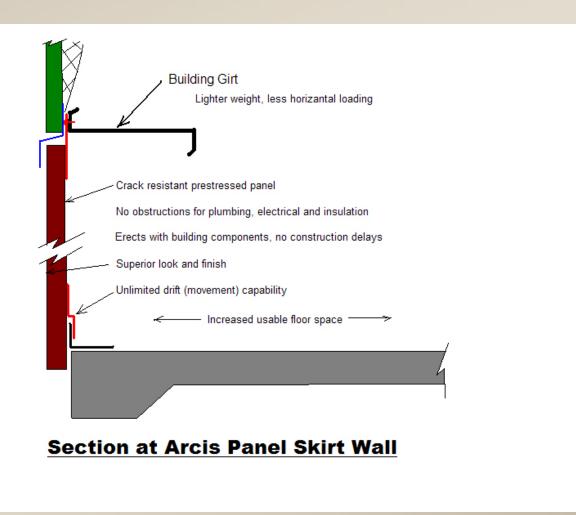


















With final installed weights from 9.4 psf to 25 psf (46 kg/m2 to 122 kg/m2), ARCIS panels provide a lightweight cladding for a true rainscreen system with the durability and aesthetic benefits of precast concrete.





Casey Portland Ore

Thank you for your time today!

